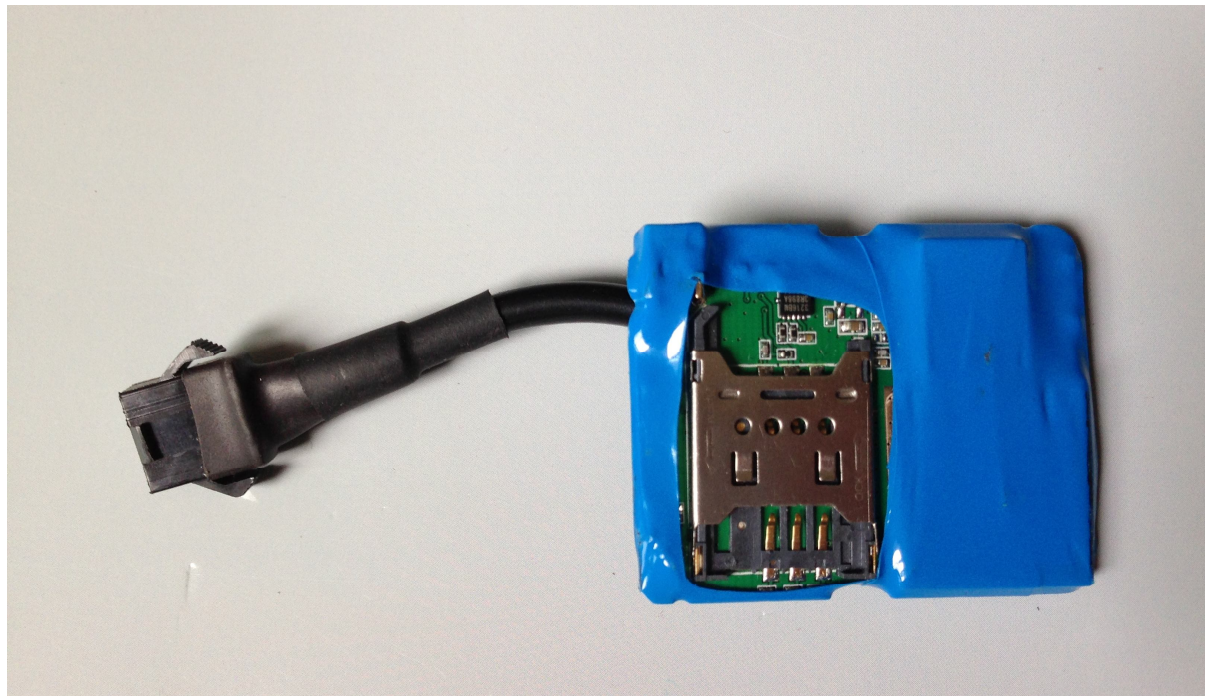


Gps.FreyEbikes.com

FREY-R01 ANTI-THEFT ALERT SYSTEM

(GPS+GSM+SMS/GPRS)

Fast installation instruction & User Manual



In order to install and operate the GPS tracker in right method and properly, please read this Fast installation instruction & User Manual before installation, Thank you

A. Technical Parameter

GSM frequency: 900/1800MHz/850/1900MHz;

GPRS: Class12,TCP/IP;

Voltage range: DC 4.2-5VDC

Standby Current: $\approx 0.2\text{mA}$

GPS initialization: Cold boot 38s (Open sky)

Warm boot 2s (Open sky)

GPS Accuracy: 10m (2D RM);

Working Temperature: $-20^{\circ}\text{C} - +70^{\circ}\text{C}$;

Working Humidity: 20%–80%RH;

B. LED Indication

1. Red LED (Power status indication)

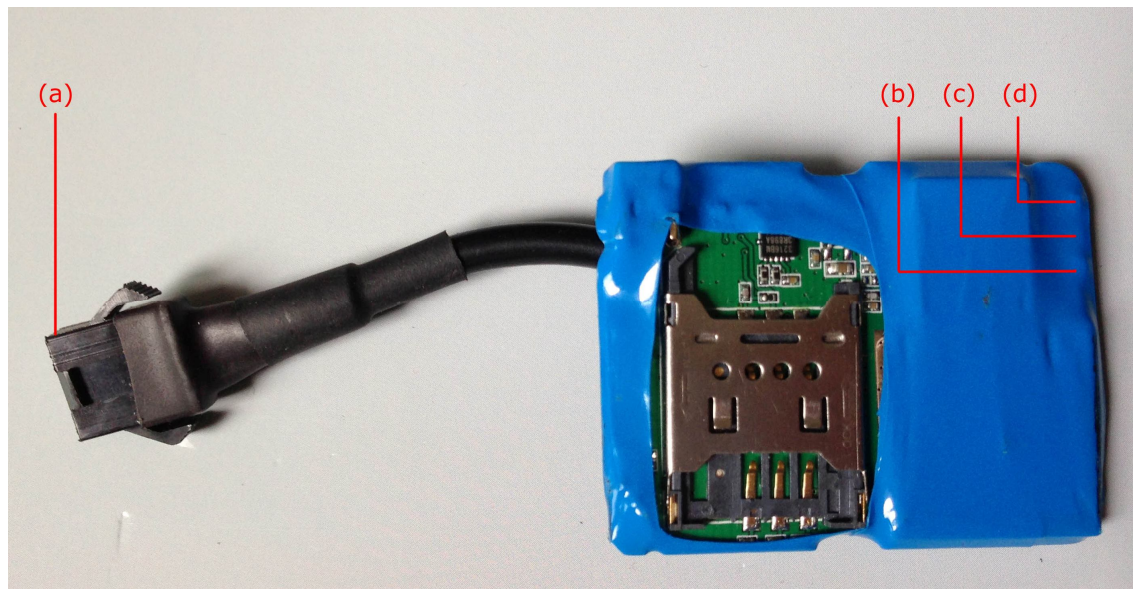
LED Status	Indication
Quick flashing, On 0.1s, Off 0.1s	Low power warning
Constantly on	Charging
Slow flashing, On 0.1s, Off 2s	Battery Charged/Working Normal
Constantly off	Voltage too low/Shut down

2. Yellow LED (GSM status indication)

LED Status	Indication
Slow flashing, On 15s	GSM initialization
Quick flashing, On 0.1s, Off 2s	GSM signal receive normal
Constantly on	GSM calls/GPRS start
Constantly off	No GSM signal received

3. Blue LED (GPS status indication)

LED Status	Indication
Flashing, On 0.1s, Off 0.1s	GPS signal normal
Constantly on	GPS signal searching
Constantly off	GPS shut down



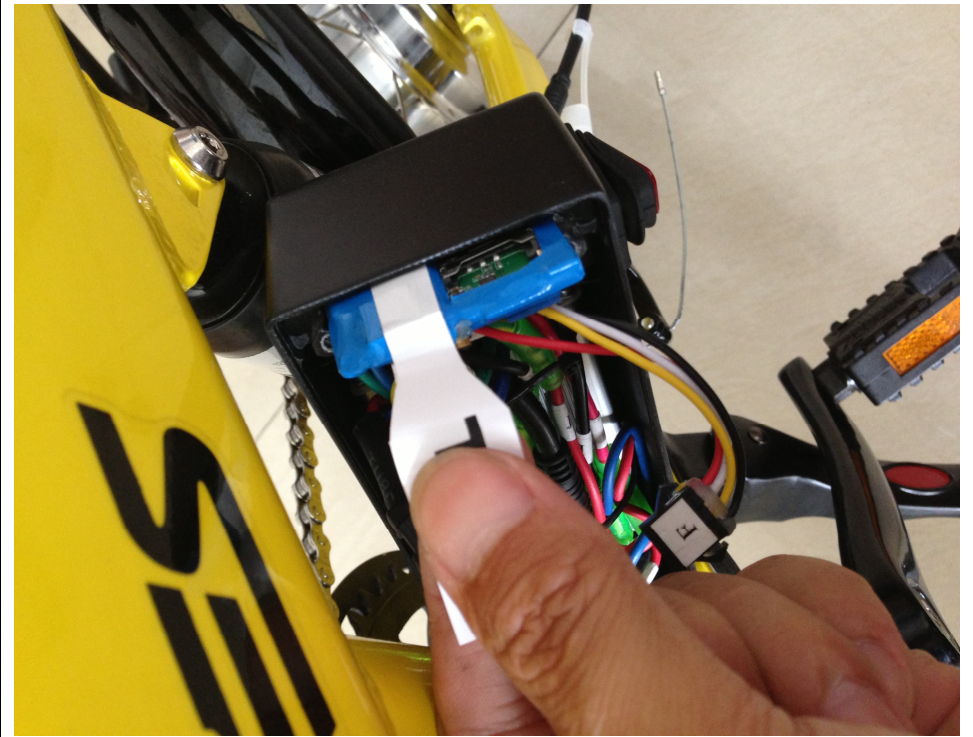
(a) Power; (b) Power LED Status; (c) GPS LED Status; (d) GSM LED Status

C. SIM card and GPS module installation method

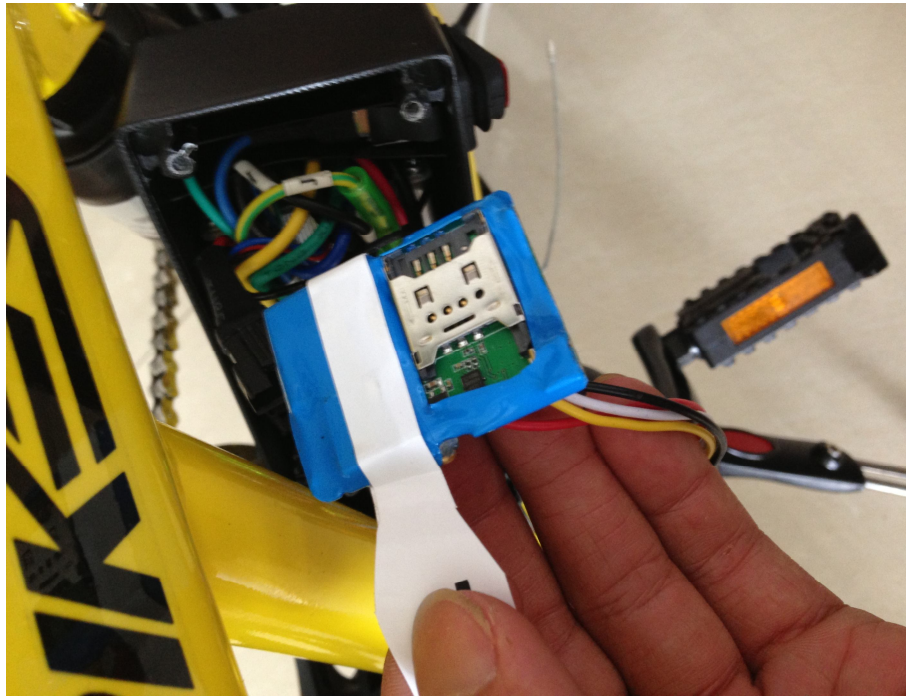
1. Choose correct SIM card, a SIM card will be needed to insert into the terminal, please consult distributors options for further use ;



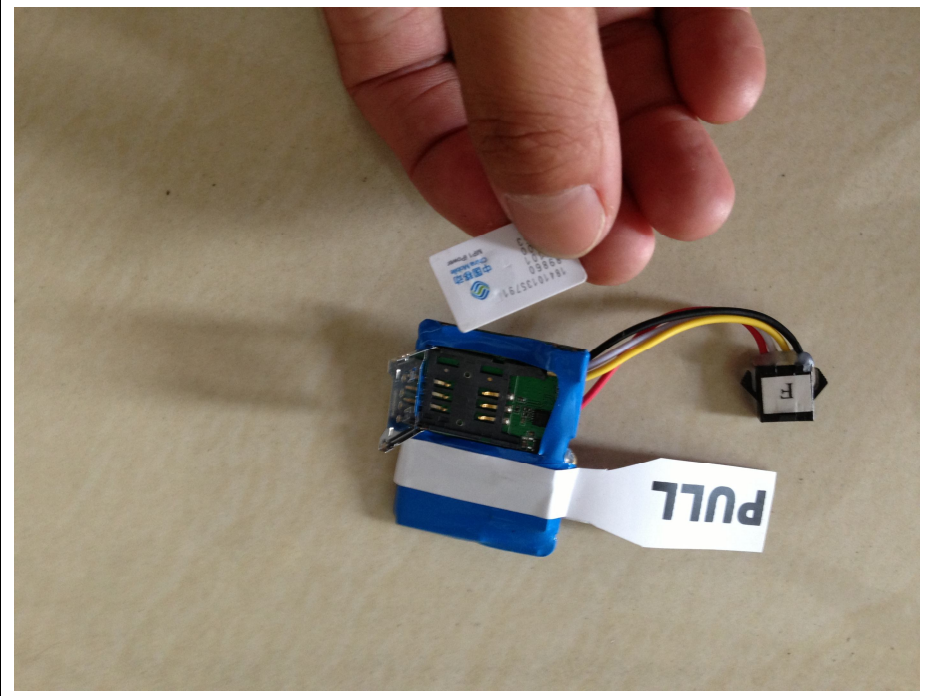
1. Open controller box, cut off GPS module circuit which have an “F” label;



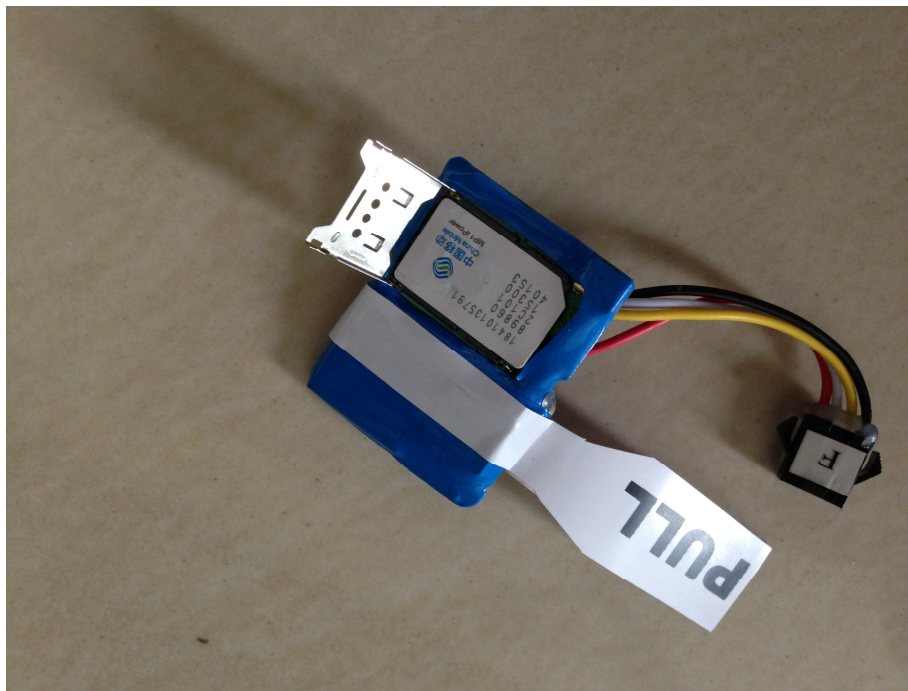
2. After cut off GPS module circuit, pull out GPS module by a “PULL” label;



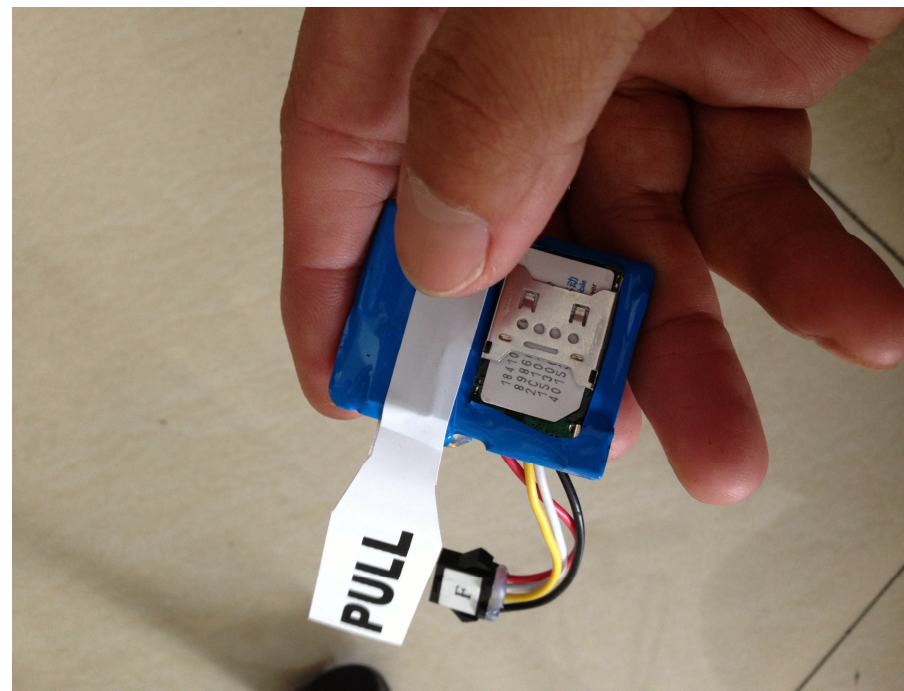
3. Take out GPS module;



4. Lift the SIM card cover, and insert a SIM card;



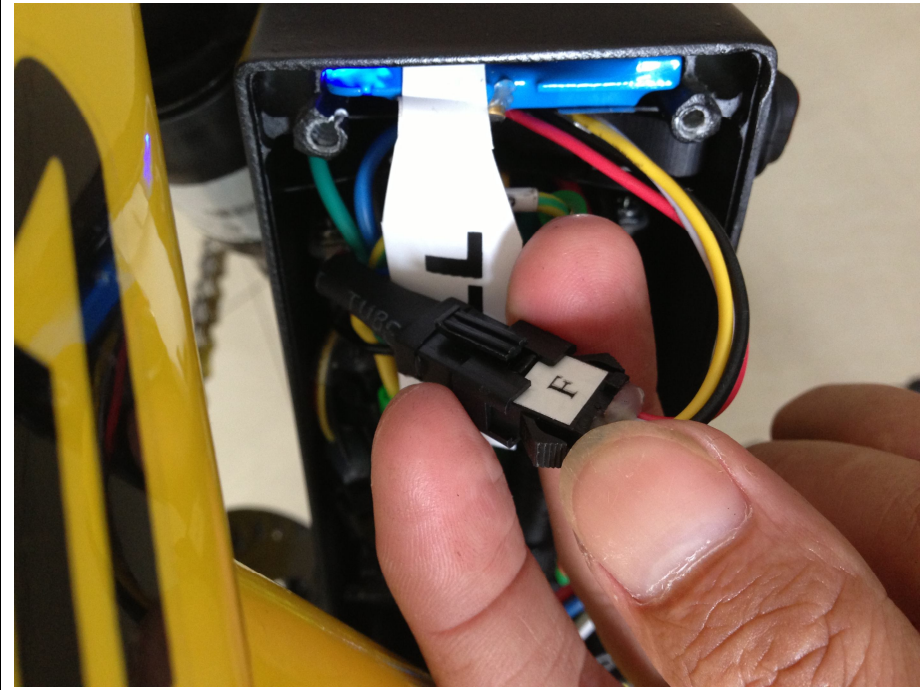
Place the SIM card chip facing down into the SIM card slot;



5. Then fasten the SIM card slot cover.



6. Put the GPS module inside of the controller box where is for the GPS module. During installation process, please do not connect to the power, SIM card slot facing up, please don't invert;



7. Connect GPS module circuit which cable is with an "F" label; Straighten out the line, install the controller box and fix it with the frame.

Please Note:

Power off before SIM card operations;

Please make sure that the SIM card has enough credit;

Special GPRS data SIM Card suggested (GSM network only);

D. Terminal Operations

1. Start-up/Shut-down

- a) Start-up: insert the SIM card, turn on back-up power supply, the terminal will start up;
 - b) Shut-down: disconnect power plug, take out the SIM card, the terminal will shut down;
- Turn off: Unplug the device which is with an “F” cable.

2. Terminal parameters settings

All beginning letters in each parameters' commands shall use upper-case letters, all punctuations shall be English punctuation, only part of commands will reply. By sending enquiry commands to the terminal, corresponding contents will be replied. Commands shall be sent by the bound cellphone number.

● Cellphone SIM Card Number Binding

After the terminal start up normal, please bind your cellphone number first, alarms will send to this bound number.

Send SMS: ***ZC#terminal password#Cellphone SIM card number#Terminal SIM card number#**

Initial password in 000000, command start with

e.g.: ***ZC#000000#15888185569#12345678922#**

● Password Modification

Send SMS: ***MP#Previous terminal password#new terminal password#**

(6 numbers)

e.g.: ***MP#000000#987654#**

Initial password is 000000, new password in 987654

● Get Terminal Position by SMS

Send SMS: DW to terminal, it will reply the terminal current geography location

e.g.: south east 30 meters, ABC company, Meilong Rd, Jinghua, Zhejiang Province, China.

● GOOGLE address Link

Send SMS: **GOOGLE** to terminal, it will reply the terminal current geography location link

<http://maps.google.com/maps/?f=q&hl=en&q=31.237395,121.390373333333;S=0;D=2012-5-23 12:00:00;D=0>

Please note: the default time is Greenwich time, actual time needs to add your time zone number

e.g.: enquiry time is 12:00:00,Chinese time is 20:00:00 (+8 hours)

● **Vibration Alarm**

After you turn on vibration alarm function, if the bike occurred vibration several times, it will trigger vibration alarm mechanism, the terminal will send a vibration alarm message to the binding mobile phone number, at the same time, it will upload the alarm information to the monitoring platform.

Send SMS: **SF** to turn on the vibration alarm

Send SMS: **CF** to turn off the vibration alarm

No spaces.

● **Remote pickup (option):**

When mobile phone number calls the SIM card number, “beep” sound after 4, the device answer automatic, go to listening mode.

Note: the device SIM card need to open call display function.

● **Movement Alarm**

In the fortified state (in the stationary state, fortified state automatically open; in the driving state, disarming state will automatically open), movement alarm opens by default.

Turn off: *MVALMOFF#000000#

Turn on: *MVALMON#000000#

Condition setting: *MOALM#000000#speed#vibration times#

e.g.: *MVALM#000000#3#10#

(3 means speed \geq 3km/h, 10 means the device will automatically trigger the movement alarm after 10 consecutive shaking.)

E. Live Tracking Monitoring Platform

Web address: Gps.FreyEbikes.com

If you already have a login account and password information, you can login our platform directly,
or please contact your distributor and ask them to open you an account and provide you the password.

Input the address link in your computer browser, input the account and password, then login to your service platform.

About the use method of platform, please ask your distributor for Service Platform User Manual.

F. Trouble Shooting

1. Terminal installed at the first time, and it can't connect to service platform, platform always shows offline.
2. Is main power correct? Do not connect it with the vehicle internal control wires;
3. SIM card installation right, please check the installation instruction;
4. Check the LED indicators, When the terminal work normally, Red LED (GSM) flash slowly, Green LED (GPS) flash slowly;
5. Is GPS module receives GPS signal? If not, please take it to open sky and wait the first positioning is done;
6. Terminal Shows offline
7. First check the 2 LED indicators and confirm if it is normal, if it is inconvenient to check the LEDs, then check the SIM card status first, steps as follow:
8. Call the terminal SIM card number, and see if you can hear the get through sound;
9. Is vehicle parked in the basement or other places without GSM signal;
10. Monitoring the offline area, is signal one offline or all of them, then we can decide whether it is a telecom operator problem;
11. SIM card credit run out?
12. GPRS service opened?
13. If the GPS function has been activated, and didn't position the location for a long time, then we shall check the following status:
14. When mechanic install the terminal, the GPS antenna signal receive side shall up to sky;
15. Terminal installation place shall have no metal or other material shield which absorbs electromagnetic wave, also please pay attention that the up-area of terminal shall not stick any rupture film or heat shield film, cause these films contains a very high level of metal additive, it will absorb electromagnetic wave, in this case, the GPS signal will reduced by a large degree which causes lower the position accuracy, in some seriousness, it might cause the positioning function fail;
16. If the terminal is in the GPS signal weak area (High buildings can block GPS signal), please drive the vehicle to open sky area to position the location, first positioning usually take 1-2 minutes;
17. When GSM signal receive abnormally, please check whether the SIM card in terminal SIM card slot installed correctly, or whether the parking pot was covered with GSM signal, some place like basement usually have no or weak GSM signal, please drive the vehicle to places covered with GSM signal;
18. When the bound cellphone receives the main power cut-off alarm, please confirm if it is a illegal wire cut, or check the fuse box on power wire please, if the fuse burn out, contact your distributor for the same part number fuse please, after checking terminal problems, re-power the terminal to work status;